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FIGURES

FIG. 1

20 CCAGTTGCCA CTTCTCCAT TCTTCCTTC GCTTC CCAAGTCGAA CCCCCAAAAGAAA 50
 20 TCAAGCTCA GAACTAACG AAGAGG CACAACTC ATCTATTTTCAGGGGTTTGTGG 120
 20 TTTTTCATCCT TGTACCAATG GAGTTCC CAAATCAAGCAGCTGAGAGCTTACCCAAA 180
 N I E A N O A E E S S T D K
 20 AAATTCGAAAGAGGAAATTCAGAGTAAAGG CAGTC CAAAGCACTA CCAATCCAGAAAG 240
 K D [G R G K I S X K S I S N S I N S D Y
 CAGCTTC TCGAAACGCGCCGCAAG GAGTTGCTTAAGAAAGCCTATGAGTTGCTGCTCTTGG 300
 T F C R R R N S L L K K A T E L S V L C
 20 TATGCTGAAGTTGCTCTTATC GTCTTCTCCA CCGTGGCCGCTCTATGAGTATGCTAA 360
 C A S V A L I V E S T R S R L E E E A D
 20 CAACAGCTTATAGCAACATC GACAGGTACAAAGAGCAGTCGCTGATCTACGGAAG 420
 S S V R A T I D R T N K A C A [D S E E G <-dom
 20 TCGATTCGAAAGAGGAGTAAAGAGGAGTCTTAAGAGCAGGAGGAGTCAAAAGGAGAG 480
 D S V S R A N T D F Y Q C R A H K T R R
 20 ACAGATCCGAGAAATTCAGATTCAGAAACGGATATATCTGGGGGATCCCTTACGACCTT 540
 Q I R E I C N S M R H I L D E S L S T L
 20 GAAAGTCAAGGAGTCAAAAGCCTAAGAGGAGATTCAGAAAGGAGTCAAGGAGTCAAG 600
 K V E E L R N L E C R L E E C I E R I R
 20 ATCCAAAAGGATGAAATCCTGTTTCTGAAATCGAATTCATTCAGAAAGAGGAGGAGTGA 660
 S K E N E I E F S E E I E T N Q Y R E T E
 20 GTTGAACAGGACAGGATTTTGTTGAGAGGAGGAGTCAAGGAGGAGGAGGAGGAGGAG 720
 E Q S H N N E D R A K I A E S E R E Q Q
 20 GAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 780
 Q Q Q T K K I P S T S Y D P S M P S S S
 20 GATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 840
 V D R N F F P V I L E S N S E H X P R Q
 20 AGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 900
 Q Q T A L O H V
 20 CAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 960
 DATCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1020
 20 ATTCTGTGATACATATATAGTAAATTTTATTTCTCAACCCGA 1065

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FIG. 2

GCAATTCCTTCCTCCCGTTGCCAAGTGCAACCCCAATAGAAAACTCAAAGTCAAGAACT 60

AGCTAACAGAGAAAACCACAATTCATCAATTGGAGGGGTTTTTGCCATTTTTCATCCTT 120

GCAACAATGGAGTTCCCAATCAAGCACCCGAGAGCTCCTCCAGAAAAAATTGGGAAGG 180
M E F P N Q A P E S S S Q K K L **G R** MADS-BOX

GGCAAAATTGAGATTAGCGGATCGAAAACACTACAAATCGACAAGTTACCTTCTGCAA 240
G K I E I K R I E N T T N R Q V T F C K

CGCCGCAACGGATTGCTTAAGAAAGCCTATGAATTGTCTGTTCTTTGTGATGCTGAAGT 300
R R N G L L K K A Y E L S V L C D A E V

GCTCTTATCGTGTTCCTCAACCGTGGCCGCCTCTATGAGTATGCTAACAAAGTGTTAGA 360
A L I V F S N R G R L Y E Y A N N S V R

GCAACAATCGACAGGTACAAAAAGCATACGCTGATCCTACGAACAGTGGATCTGTTTCA 420
A T I D R Y K K A Y A **D P T N S G S V S** K-domain

GAAGCCAACACTCAGTTTTATCAGCAGGAAGCATCCAACTGCGAAGACAGATCCGAGAA 480
E A N T Q F Y Q Q E A S K L R R Q I R E

ATTCAGAATTCAAACAGGCATATACTGGGTGAAGCTCTTAGCTCCTTGAACGCCAAGGAA 540
I Q N S N R H I L G E A L S S L N A K E

CTGAAGAACCTAGAAGGAAGATTGGAGAAAGGAATCAGCAGAATAAGATCAAAAAGAAT 600
L K N L E G R L E K G I S R I R S K K N

GAAATGCTGTTTTCTGAAATCGAATTCATGCAAAAAAGGGAGACCGAGCTGCAACACCAC 660
E M L F S E I E F M Q K R E T E L Q H H

AACAATTTCTGAGAGCAAAGATAGCTGAAAACGAGAGGGAAGAGCAGCAGCATACACAC 720
N N F L R A K I A E N E R E E Q Q H T H

ATGATGCCGGGAACCTCCTACGATCAGTCAATGCCTTCGCATTCTTATGACAGGAACTTC 780
M M P G T S Y D Q S M P S H S Y D R N F

CTCCAGCGGTGATCTTGAGTCCAACAATAACCAATTACCCTCACCAAGTCCAGACAGCT 840
L P A V I L E S N N N H Y P H Q V Q T A

CTCCAACCTGTTTGAAATGCTGGACTGCCGTCTGAT 876
L Q L V .

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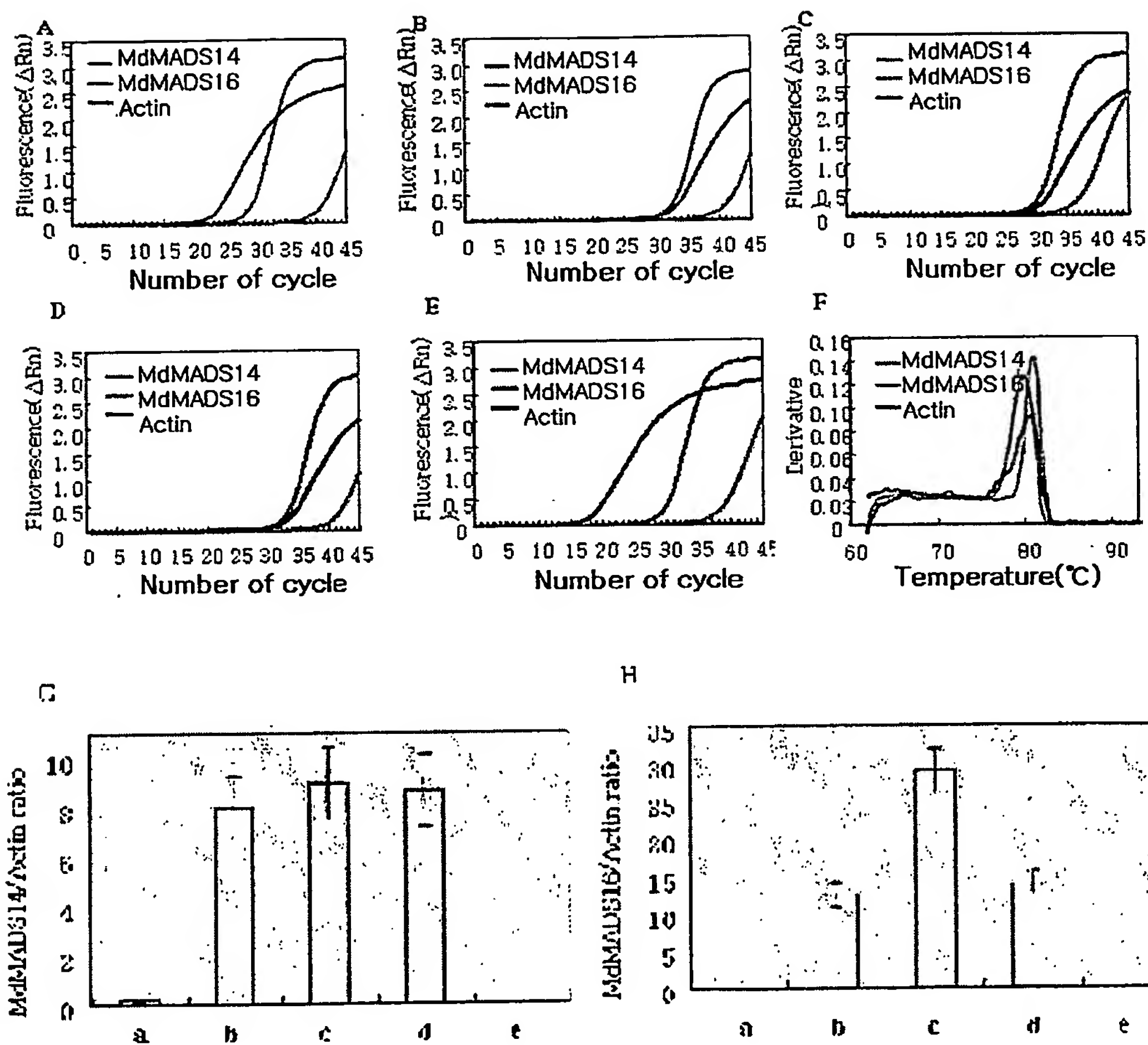
FIG. 3

1	MEFANQAPESST	QKKLGRGKIEIKRIENTT	McMADS14	
1	MEFPNQAPESS	SQKKLGRGKIEIKRIENTT	McMADS16	
31	NRQVTFCKRRNGLLKKAYELSVLCDAEVAL		McMADS14	
31	NRQVTFCKRRNGLLKKAYELSVLCDAEVAL		McMADS16	
61	IVFSTRGRLYEYANNNSVRATIDRYKKA	CAD	McMADS14	
61	IVFSNRGRLYEYANNNSVRATIDRYKKA	YAD	McMADS16	
91	STDGGSVSEANTQFYQQEASKLRRQIREIQ		McMADS14	
91	PTNSGSVSEANTQFYQQEASKLRRQIREIQ		McMADS16	
121	NSNRHILGESLSTLKV	KELEGRLEKGI	McMADS14	
121	NSNRHILGEALSSSLNAKELEGRLEKGI		McMADS16	
151	SRIRSKKNEILFSEIEFMQKRETELQHHNN		McMADS14	
151	SRIRSKKNEMLFSEIEFMQKRETELQHHNN		McMADS16	
181	FLRAKIAESERE	QQQQQTHMIPGTSYDPSM	McMADS14	
181	FLRAKIAEN	EREQQH-THMMPGTSYDQSM	McMADS16	
211	PSNSYDRNFFP	-VILESNNNHYP	RQGQTAL	McMADS14
210	PSHSYDRNFLPAVILESNNNHYP	HQV	QQTAL	McMADS16
240	QLV	(100%)		McMADS14
240	QLV	(88.4%)		McMADS16

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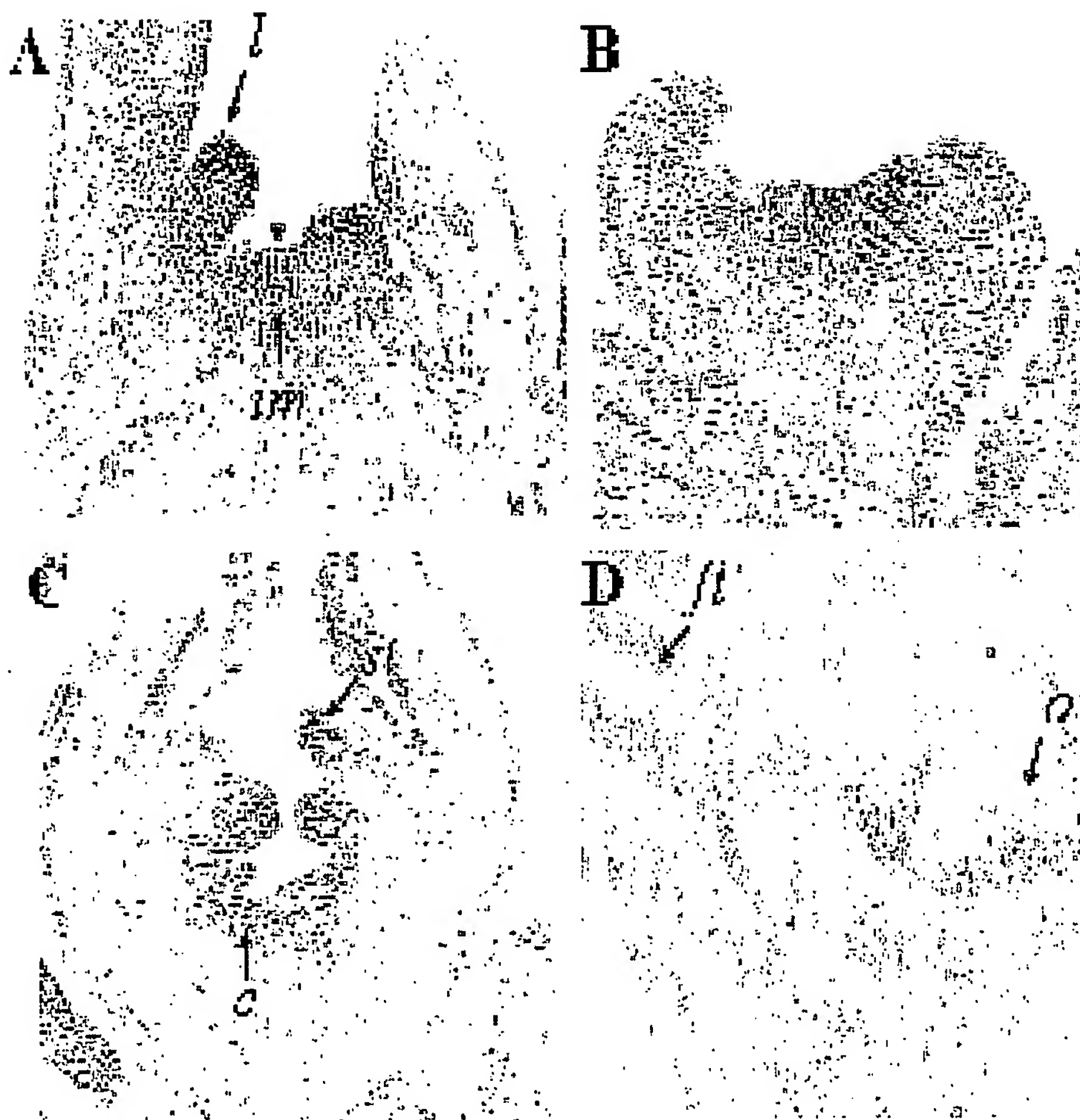
FIG. 5



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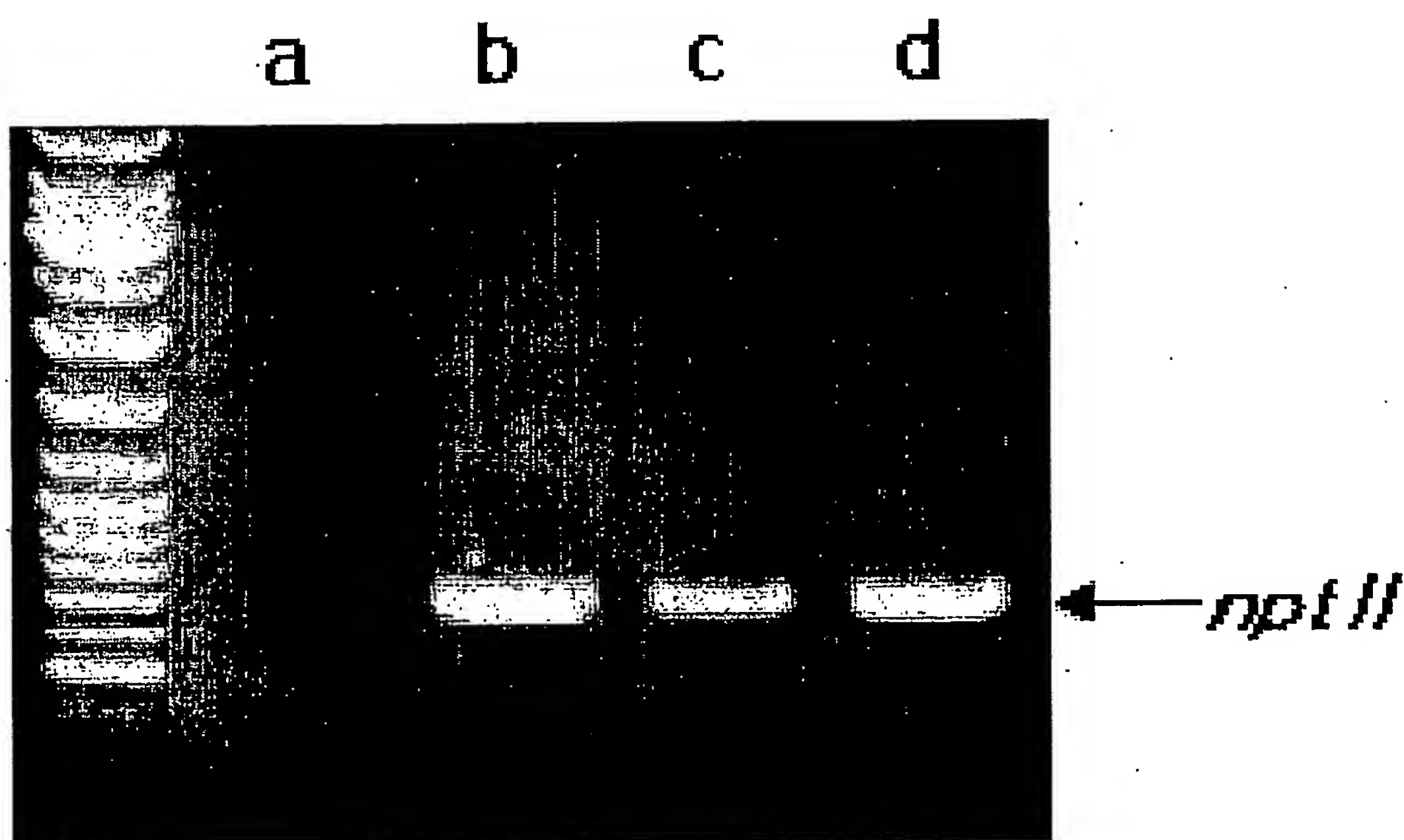
FIG. 6



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FIG. 7



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FIG. 8

Wild type

MdMAD314
Sense 1



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